

### EXISTING SIGNALS TO REMAIN

3, 6  
R  
Y  
G

### PROPOSED SIGNALS

1, 4  
R  
Y  
G  
12'x8"

2, 5  
R  
Y  
G  
12"

8, 12  
R  
Y  
G  
12"

9-10, 13  
R  
Y  
G  
12"

7, 11  
R  
Y  
G  
12'x8"

### VIDEO DETECTION

a-d

EXISTING RIGHT-OF-WAY

AUTH ROAD WBR

AUTH ROAD EBR

AUTH PLACE

### EXISTING SIGNALS TO REMAIN

14, 16a  
Auth PL

14a, 16  
Auth PL

21, 25  
Auth RD  
DUAL FACED

### PROPOSED SIGNALS

22, 23, 27  
ONLY

28-29  
LEFT TURN  
YIELD  
ON GREEN

R3-5L  
30"x36"

R10-12  
36"x42"

### EXISTING SIGNALS TO BE REMOVED

15, 18  
NO LEFT TURN

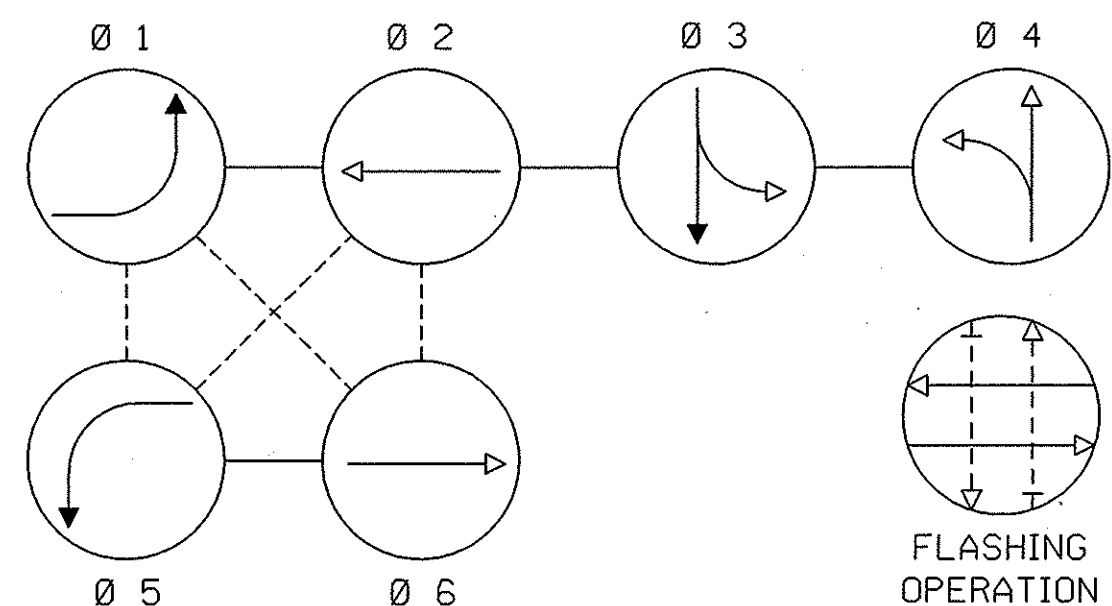
17  
NO RIGHT TURN

19-20  
ONLY

24  
ONLY

26  
DO NOT ENTER

### NEMA PHASING



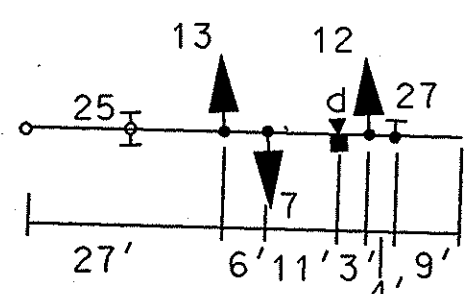
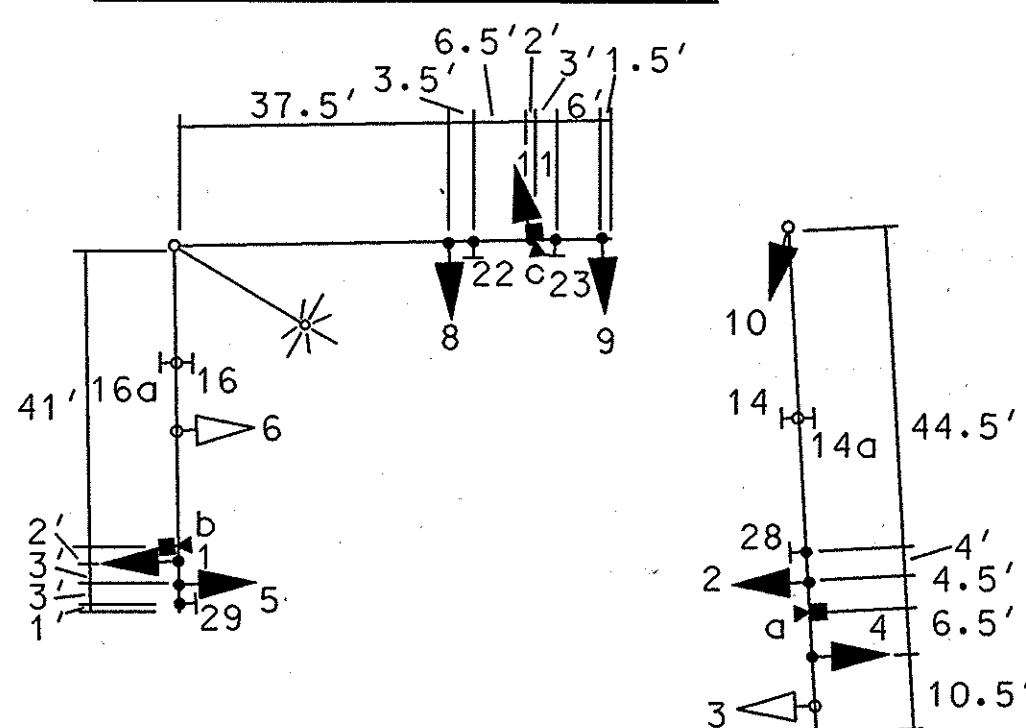
### PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

### CONSTRUCTION DETAILS

- REMOVE AND DISPOSE OF EXISTING SIGNAL HEAD
- INSTALL NEW SIGNAL HEAD
- INSTALL NEW OVERHEAD SIGN
- REMOVE AND DISPOSE OF EXISTING OVERHEAD SIGN
- INSTALL VIDEO DETECTION CAMERA
- USE EXISTING HANDHOLE
- USE EXISTING CONDUIT
- INSTALL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- INSTALL 6 FT. x 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE SET.
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR SLEEVE)
- INSTALL NON-INVASIVE MICROLOOP PROBE SET
- INSTALL 24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (FOR STOP LINE)
- USE EXISTING CONTROLLER
- INSTALL RELOCATED VIDEO DETECTION CAMERA FROM AUTH ROAD AND MD 5. (SEE NOTE 7)
- EXISTING EQUIPMENT TO BE REMOVED UNDER CLASS II EXCAVATION

### PROPOSED SIGNAL HEAD/ SIGN/ CAMERA LAYOUT



### UTILITY LEGEND

G — G — GAS MAIN  
W — W — WATER MAIN  
S — S — SEWER MAIN  
E — E — ELECTRIC CABLES  
A — A — AERIAL CABLES  
T — T — TELEPHONE CABLES  
FO — FO — FIBRE OPTIC CABLES

DOUBLE SET OF  
PAVEMENT MARKING  
ARROWS LOCATED  
IN BREAK

### GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF NEW GEOMETRICS PRIOR TO INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR CONDUIT BY HAND.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. ALL EXISTING LOOP DETECTORS WILL BE ABANDONED. ALL MICROLOOP PROBE SETS WILL REMAIN.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
7. THE CONTRACTOR SHALL USE THE SALVAGED VIDEO DETECTION CAMERA FROM MD 5 AND AUTH ROAD AS THE PROPOSED WESTBOUND VIDEO DETECTION CAMERA (CONSTRUCTION DETAIL Q).

**STV Incorporated**

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REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY
⑥ MODIFY SIGNAL AND ADD VIDEO DETECTION FOR NEW GEOMETRICS SRA NO. PG43512	5/2005
A LOOP REPLACEMENT DUE TO GEOMETRIC IMPROVEMENTS PG21510	3/1998
C. MUNZ	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

AUTH ROAD AND I-95 RAMP 2/AUTH PLACE  
TRAFFIC SIGNALIZATION PLAN

DRAWN BY: T. ZAYDEL  
CHECKED BY: K. SCHMID  
SCALE: 1 IN. = 20 FT.  
DATE: FEBRUARY 23, 1998

F.A.P. NO. PG217A21  
S.H.A. NO. PRINCE GEORGE'S  
COUNTY: LOG MILE: 163584000.25

TS NO. 3796-B  
T.I.M.S. NO. F861

SHEET NO. 400 OF 410